RAILER SMS

RAILER RED (Remote Entry Database)

Version 6.0.0

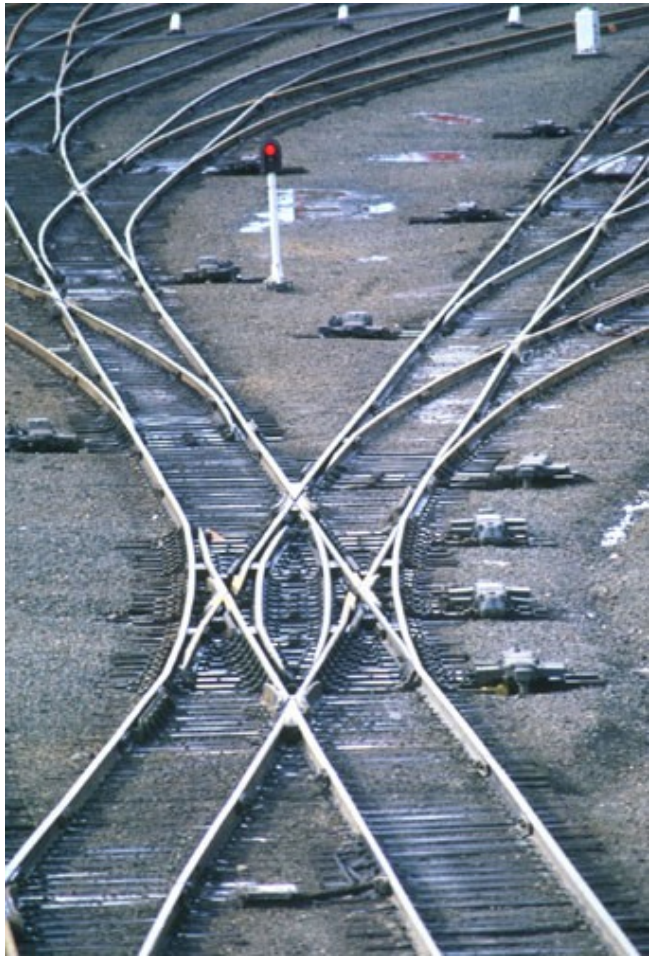
RAILER RED

Railer RED

(Remote Entry Database)

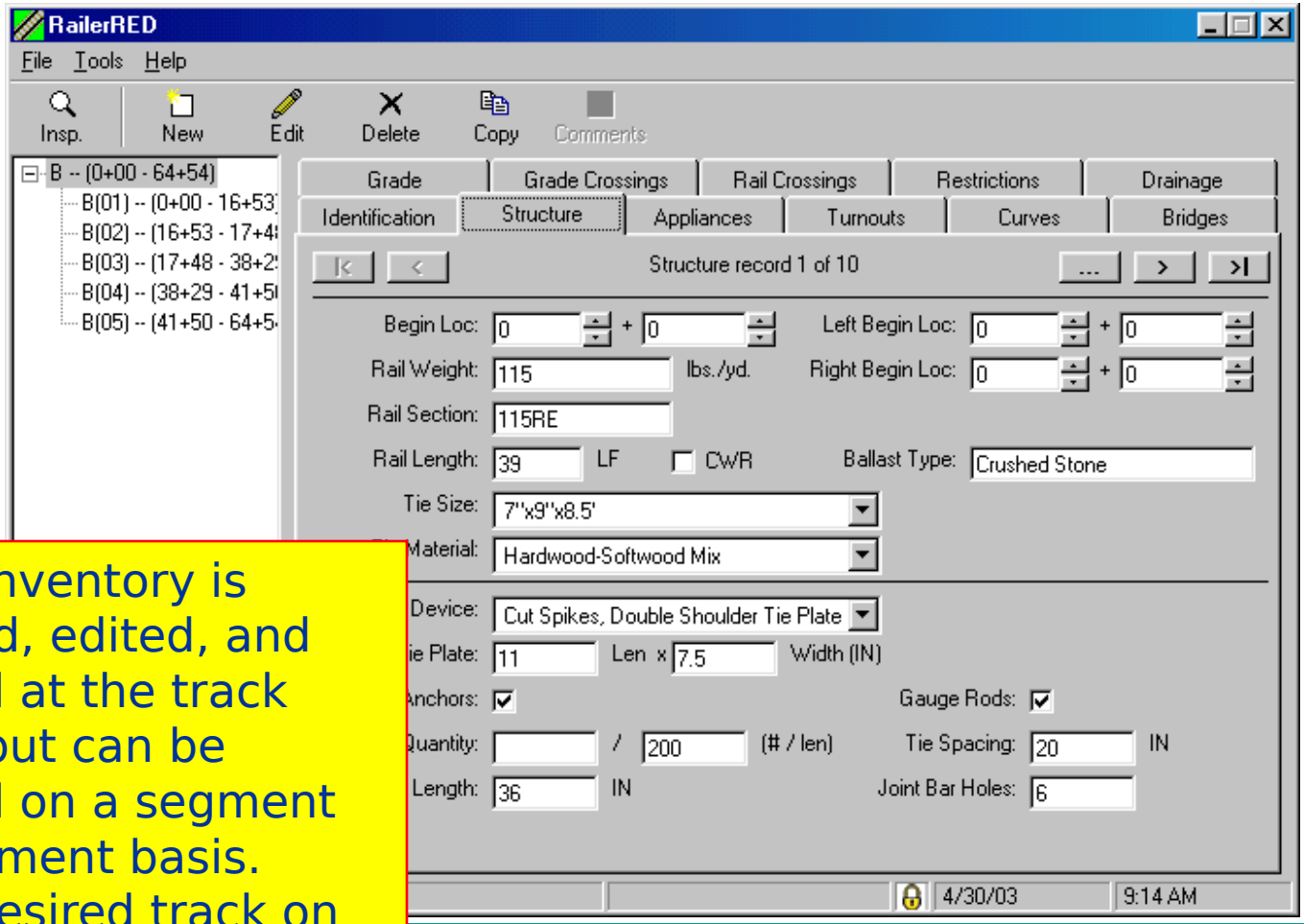
- Pen-based inventory and inspection software deigned specifically for field data collection.
- Optional use.
- Reduces error and speeds the process considerably (40%-80% has been documented).
- Extensive “Pick list” tables are used throughout.
- Transfer data electronically into RAILER.

Inventory w/RAILER RED



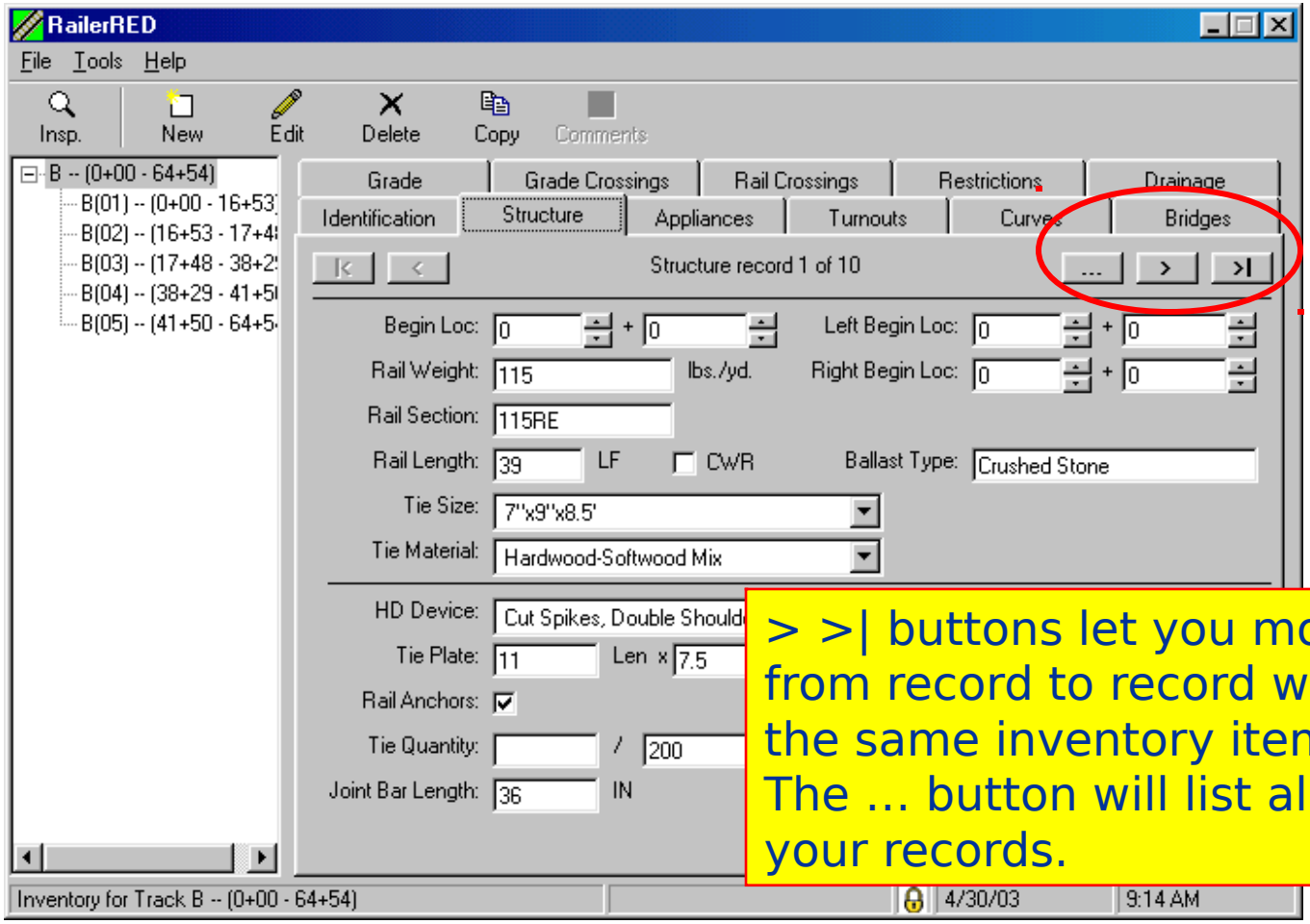
- Can be used for initial inventory data entry for a track and inventory updates.
- Includes network and track inventory.
- Can edit track and segment names as well as their station boundaries.
- New tracks and segments can be created in RAILER RED.
- Note: The first time RAILER RED is used for a given network, a minimum of one track must be imported from RAILER.

Inventory w/RAILER RED



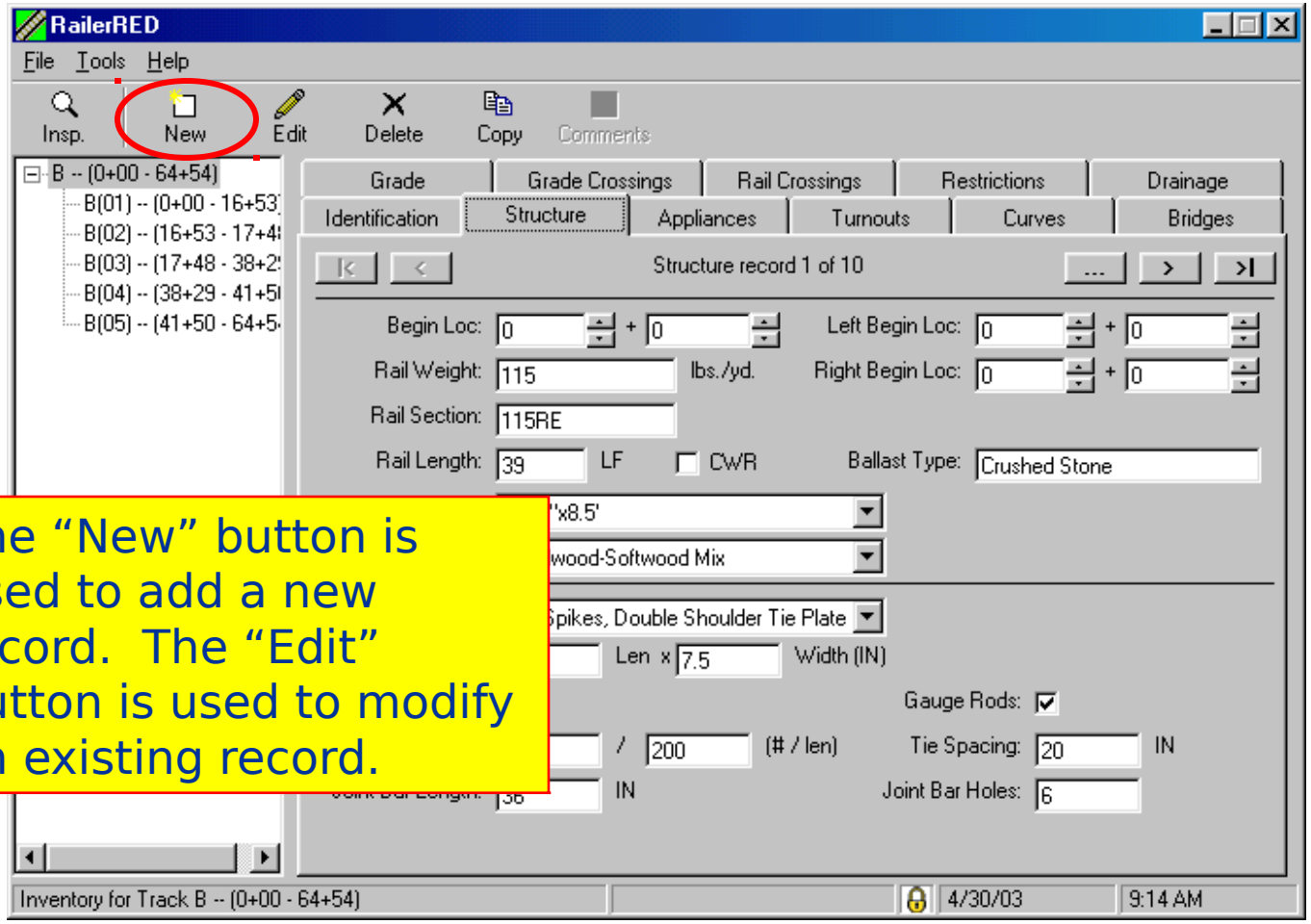
Track inventory is entered, edited, and viewed at the track level, but can be viewed on a segment by segment basis. Click desired track on tree.

Track Inventory



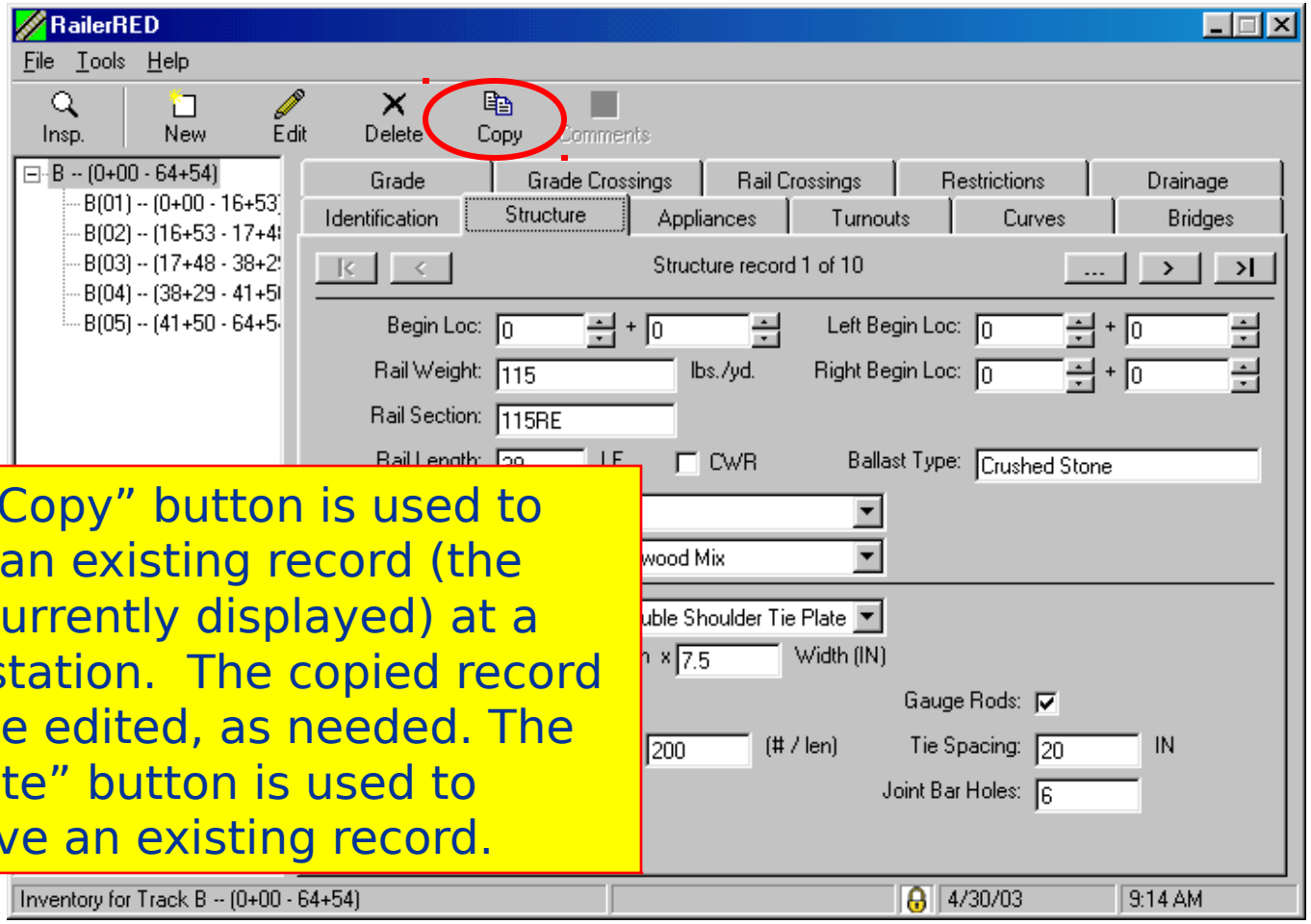
> >| buttons let you move from record to record within the same inventory item. The ... button will list all of your records.

Track Inventory



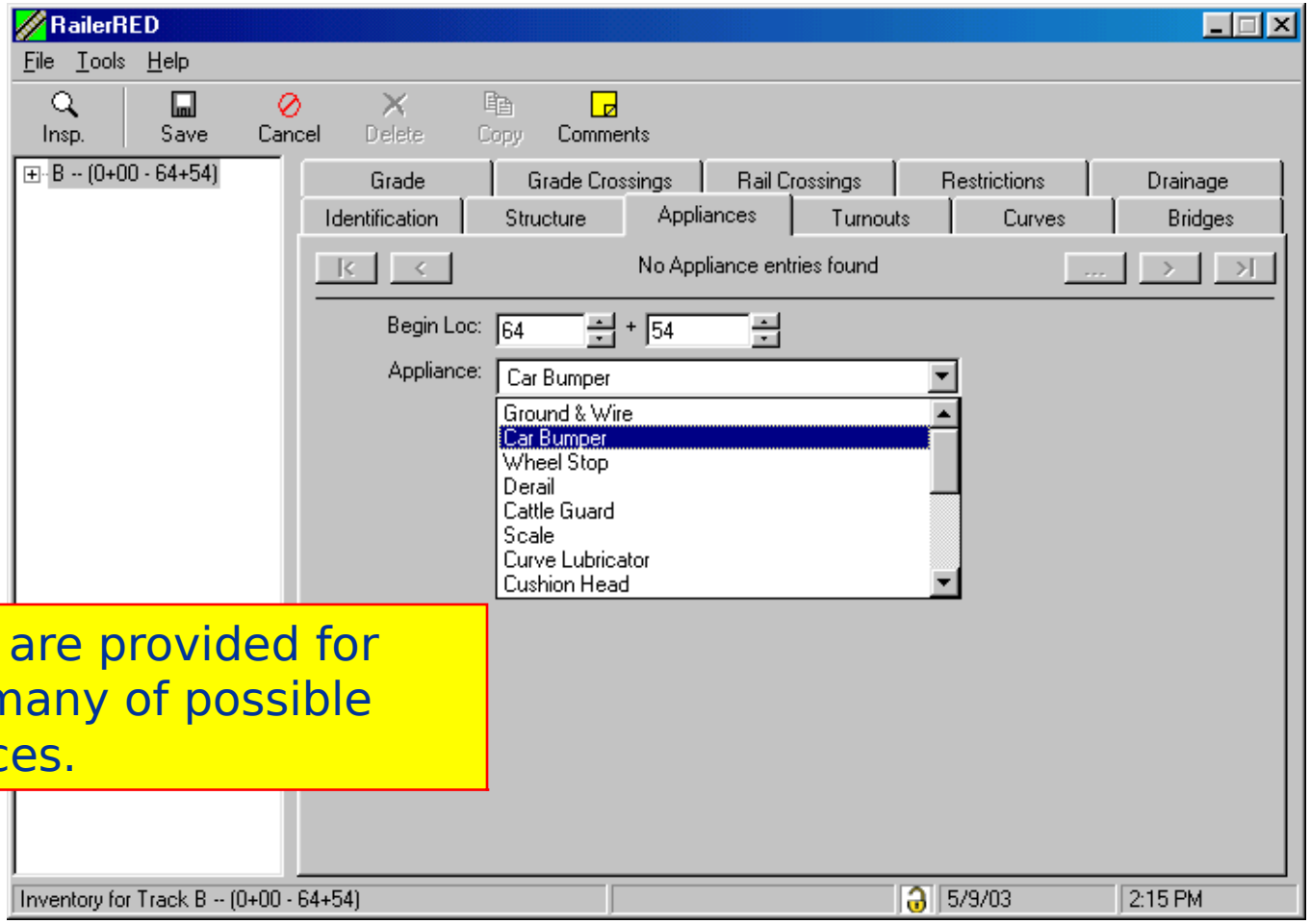
The “New” button is used to add a new record. The “Edit” button is used to modify an existing record.

Track Inventory



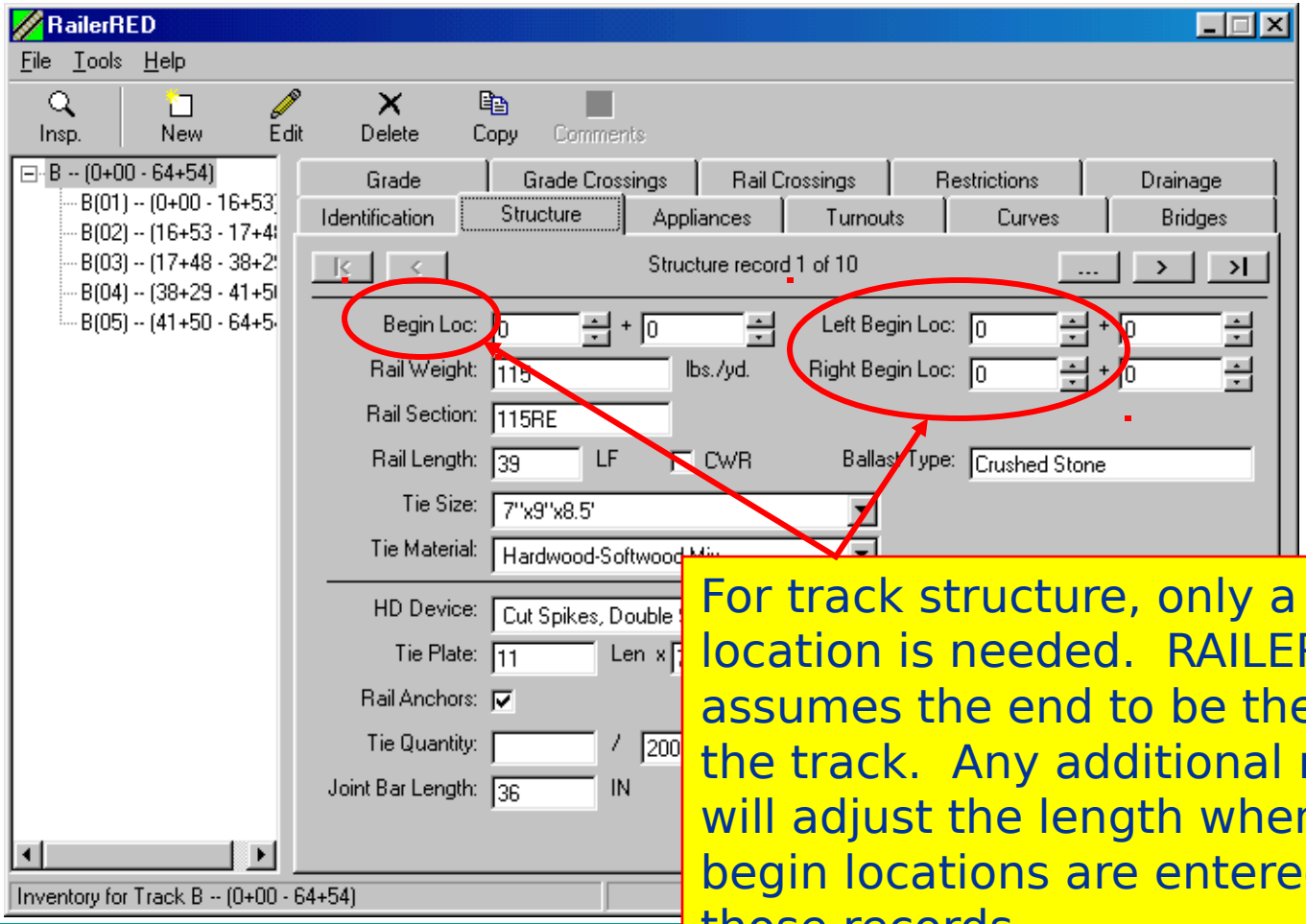
The “Copy” button is used to copy an existing record (the one currently displayed) at a new station. The copied record can be edited, as needed. The “Delete” button is used to remove an existing record.

Track Inventory



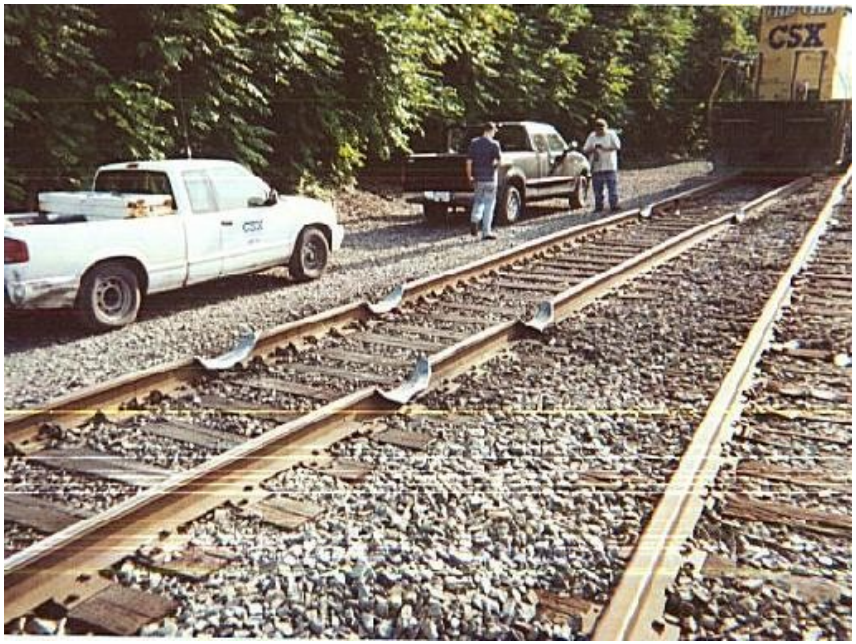
Lists are provided for the many of possible choices.

Track Inventory



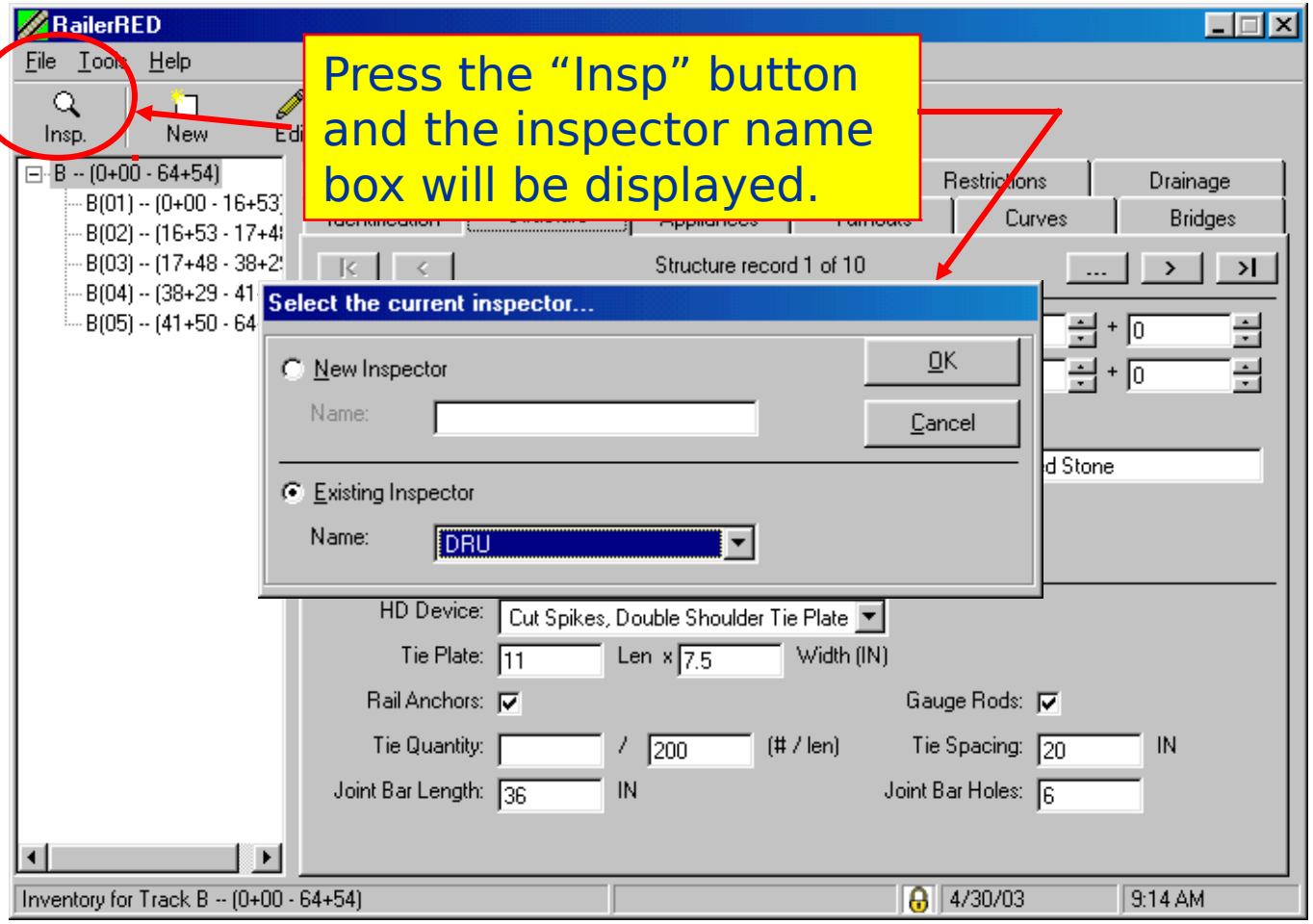
For track structure, only a begin location is needed. RAILER RED assumes the end to be the end of the track. Any additional records will adjust the length when the begin locations are entered for those records.

Inspection w/RAILER RED

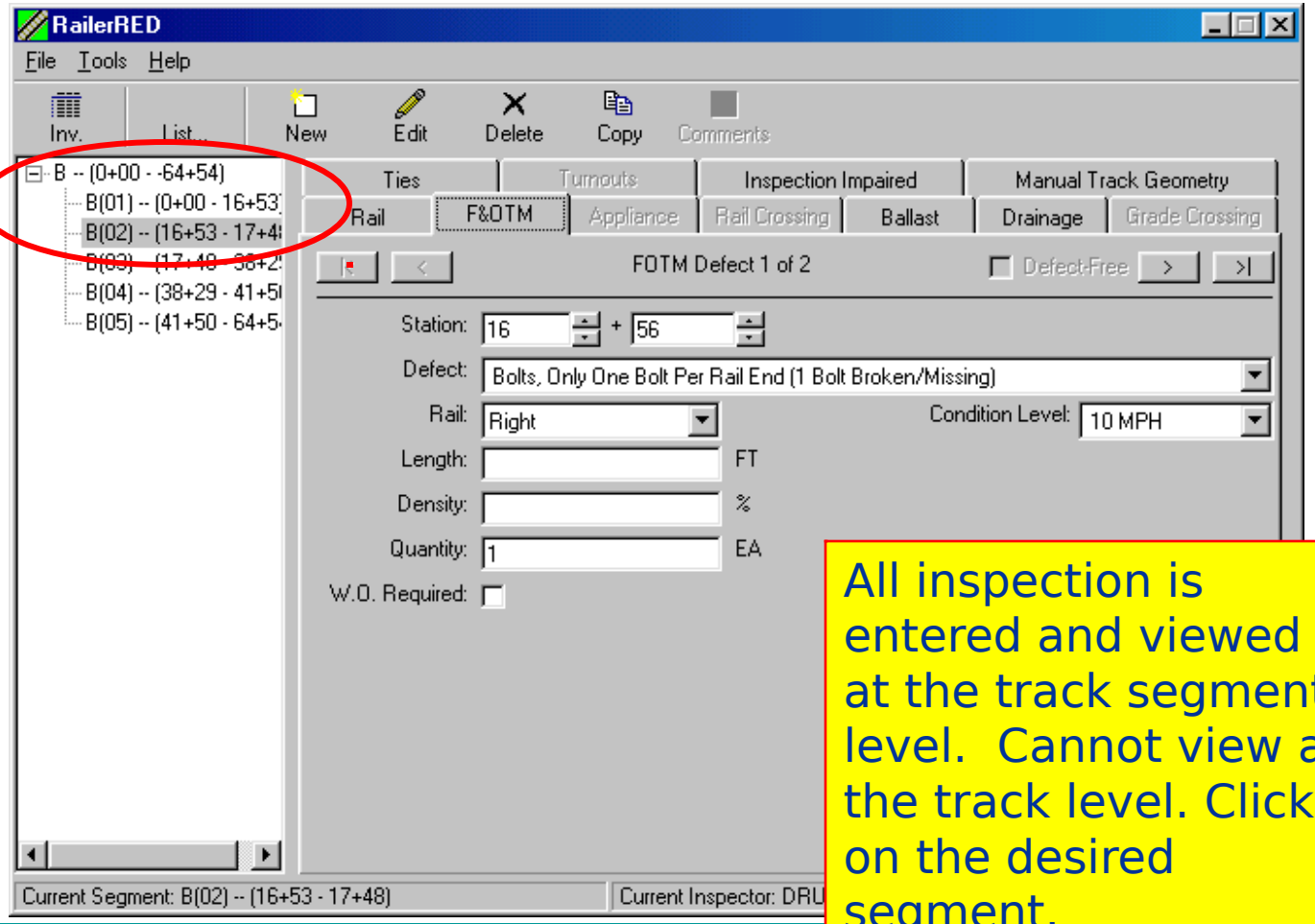


- Can be used for detailed inspections and safety inspections.
- Most recent past inspection data are presented for viewing and coping.
- Five (5) day grace period for completing given inspection for given component in a given segment.

Inspection w/RAILER RED

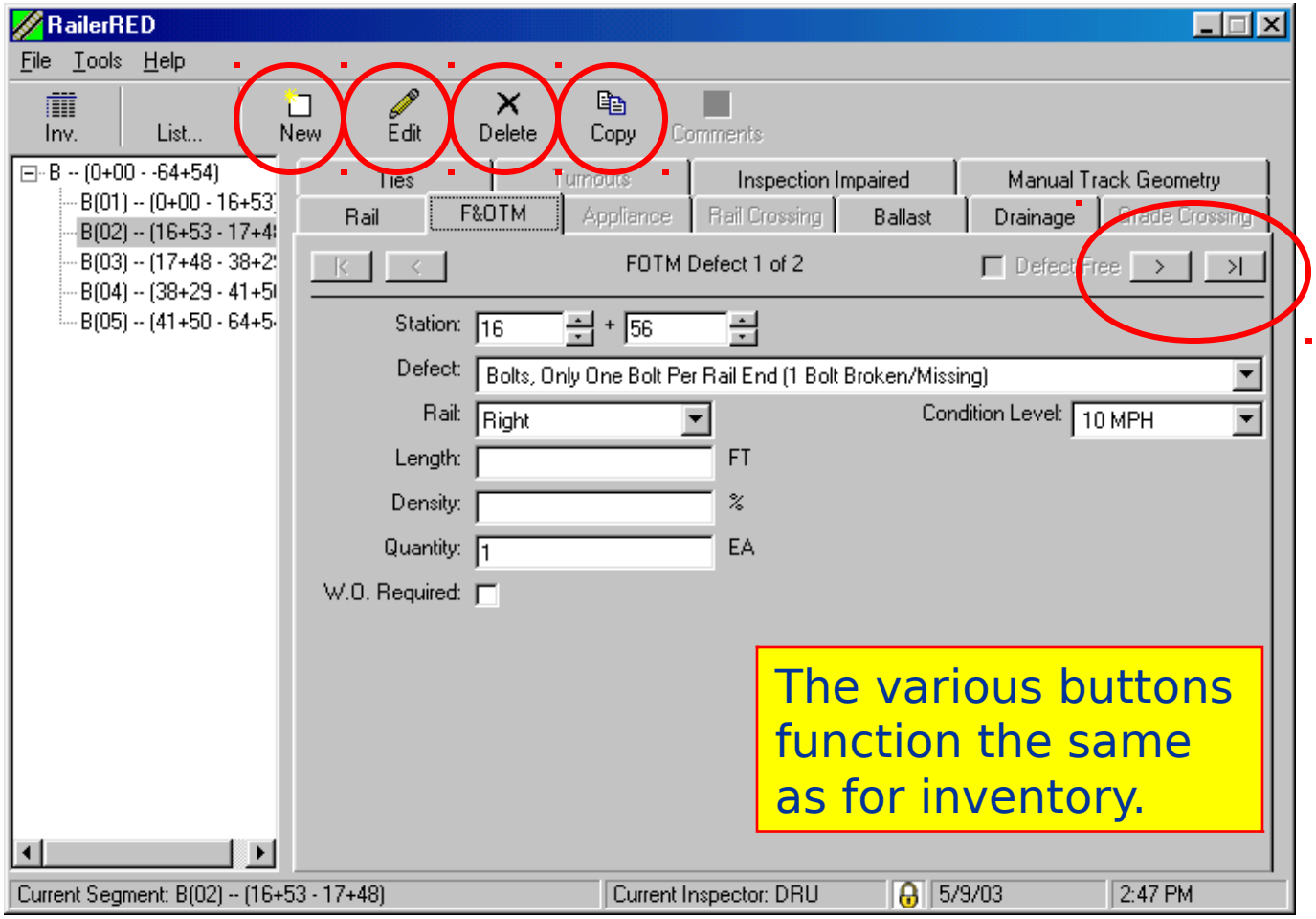


Detailed Inspection w/RAILER RED

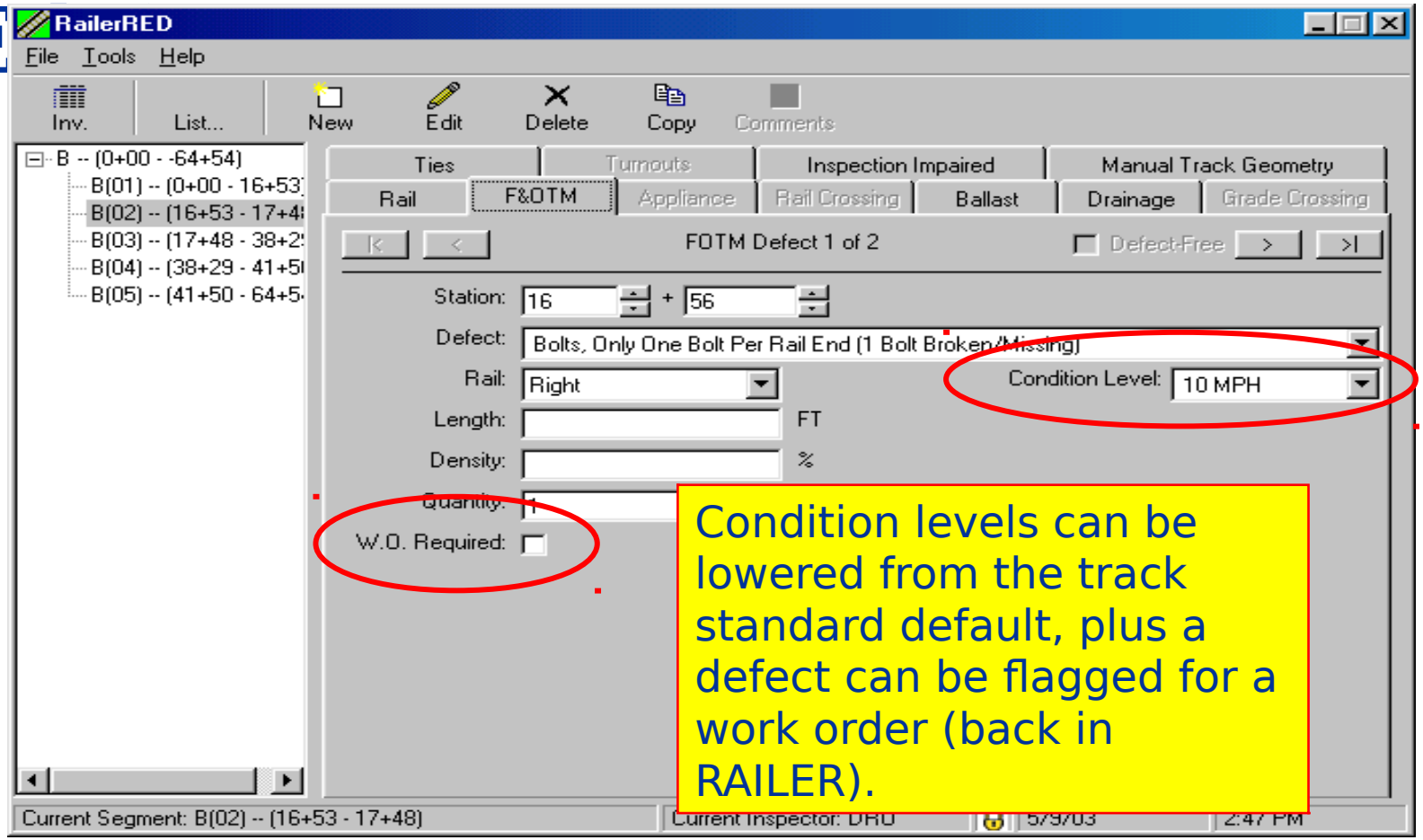


All inspection is entered and viewed at the track segment level. Cannot view at the track level. Click on the desired segment.

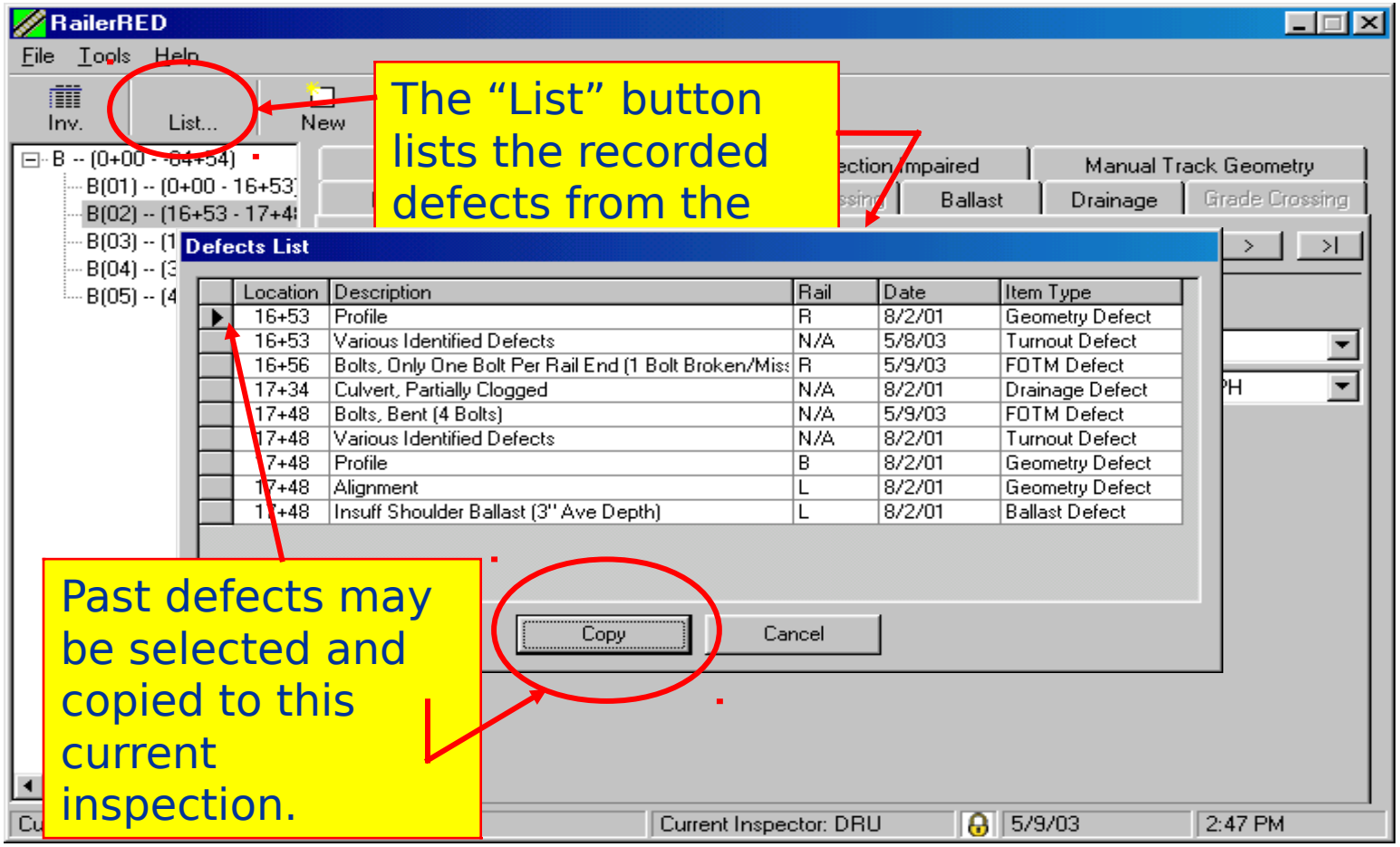
Detailed Inspection



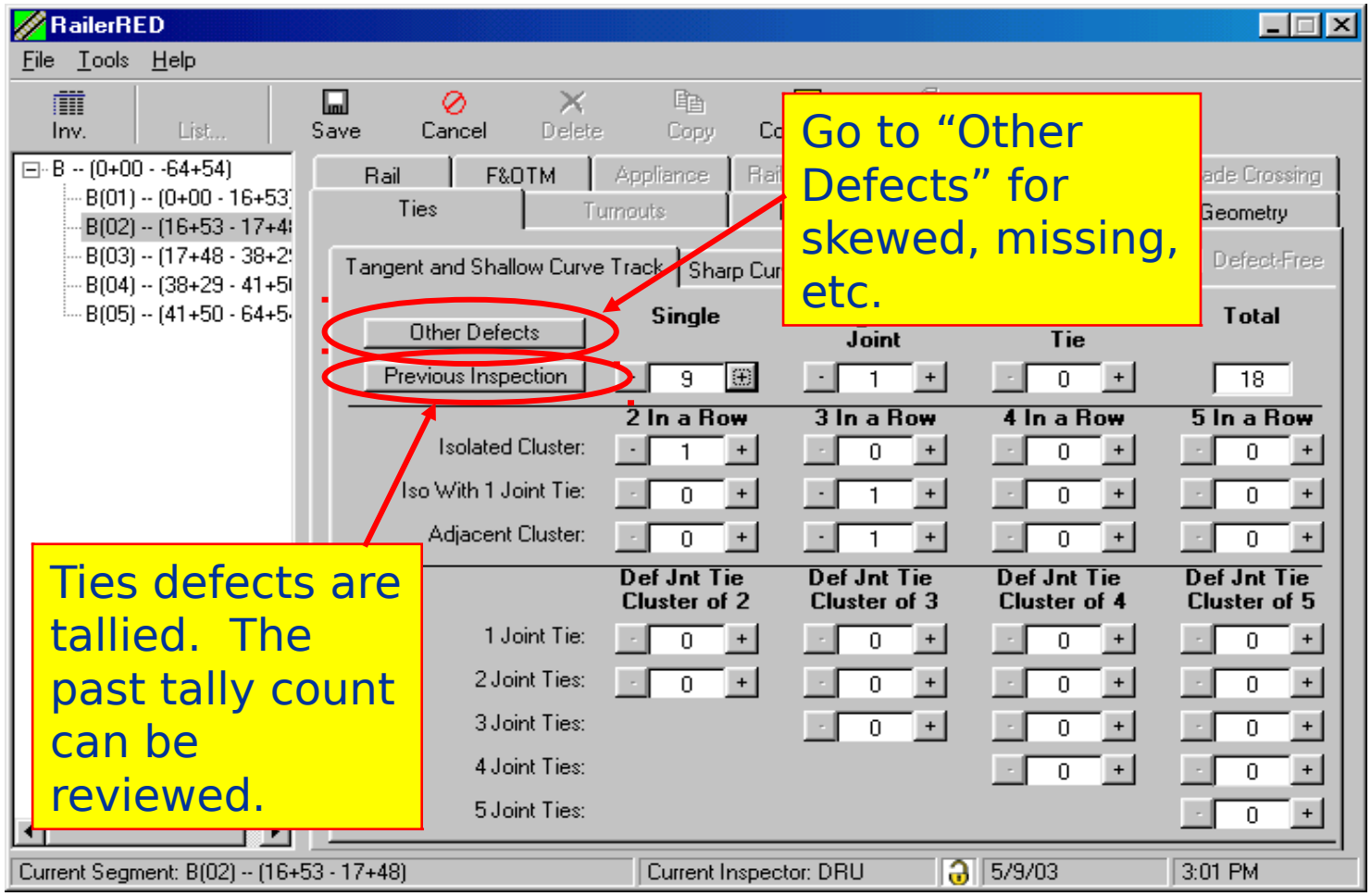
Detailed Inspection (Work Orders and Condition E



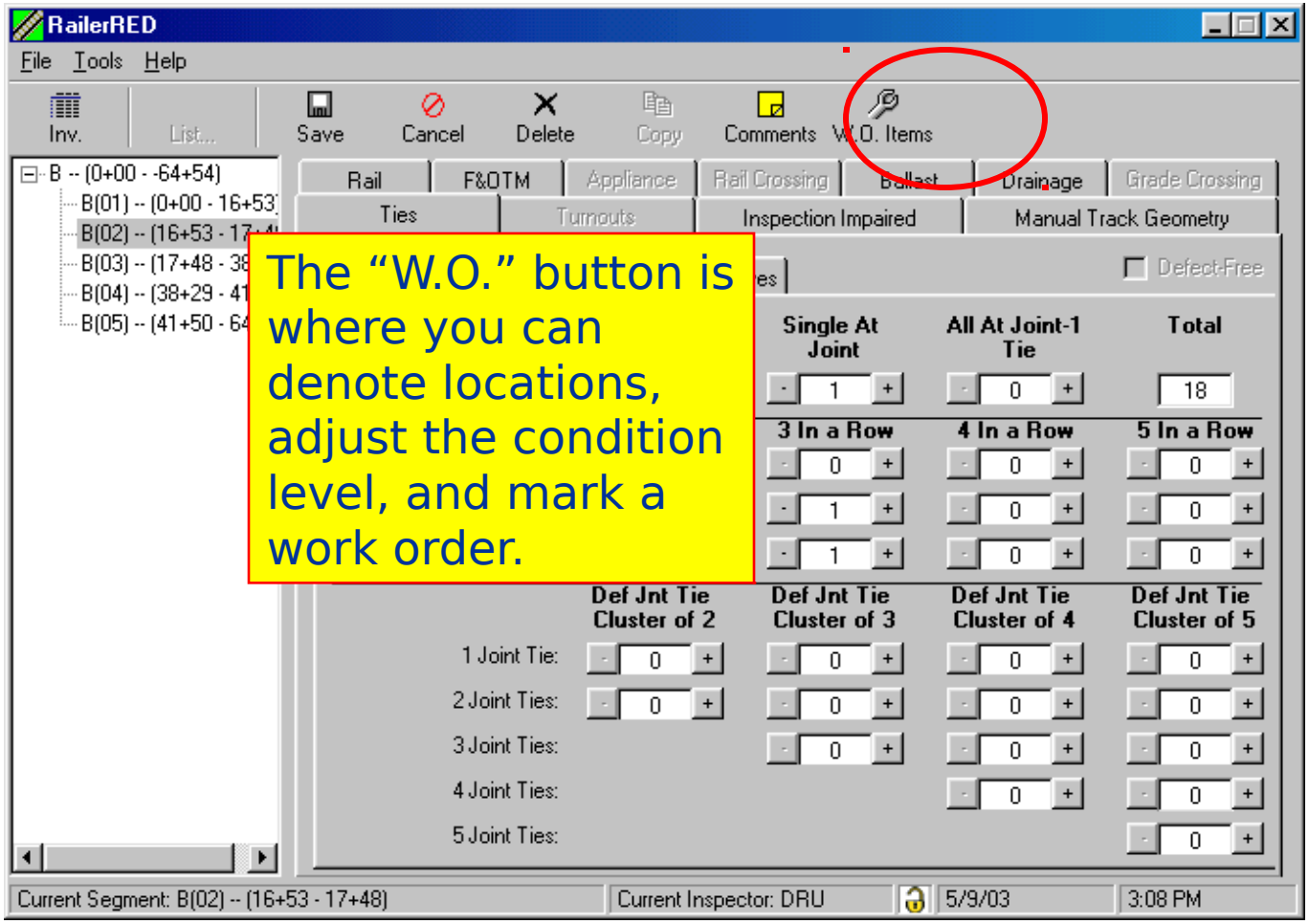
Detailed Inspection (Past Defects)


RailerRED
File Tools Help
Inv.
List...
New
The “List” button lists the recorded defects from the
Manual Track Geometry
Ballast
Drainage
Grade Crossing
Defects List
Location Description Rail Date Item Type
16+53 Profile R 8/2/01 Geometry Defect
16+53 Various Identified Defects N/A 5/8/03 Turnout Defect
16+56 Bolts, Only One Bolt Per Rail End (1 Bolt Broken/Miss R 5/9/03 FOTM Defect
17+34 Culvert, Partially Clogged N/A 8/2/01 Drainage Defect
17+48 Bolts, Bent (4 Bolts) N/A 5/9/03 FOTM Defect
17+48 Various Identified Defects N/A 8/2/01 Turnout Defect
17+48 Profile B 8/2/01 Geometry Defect
17+48 Alignment L 8/2/01 Geometry Defect
17+48 Insuff Shoulder Ballast (3" Ave Depth) L 8/2/01 Ballast Defect
Copy
Cancel
Past defects may be selected and copied to this current inspection.
Current Inspector: DRU
5/9/03
2:47 PM

Detailed Inspection (Ties)

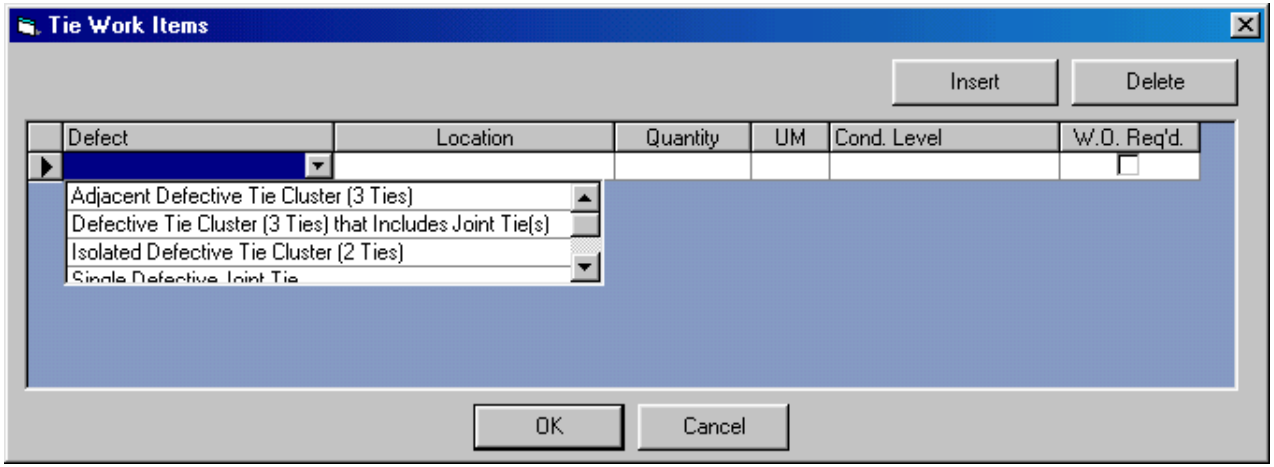


Detailed Inspection (Ties)



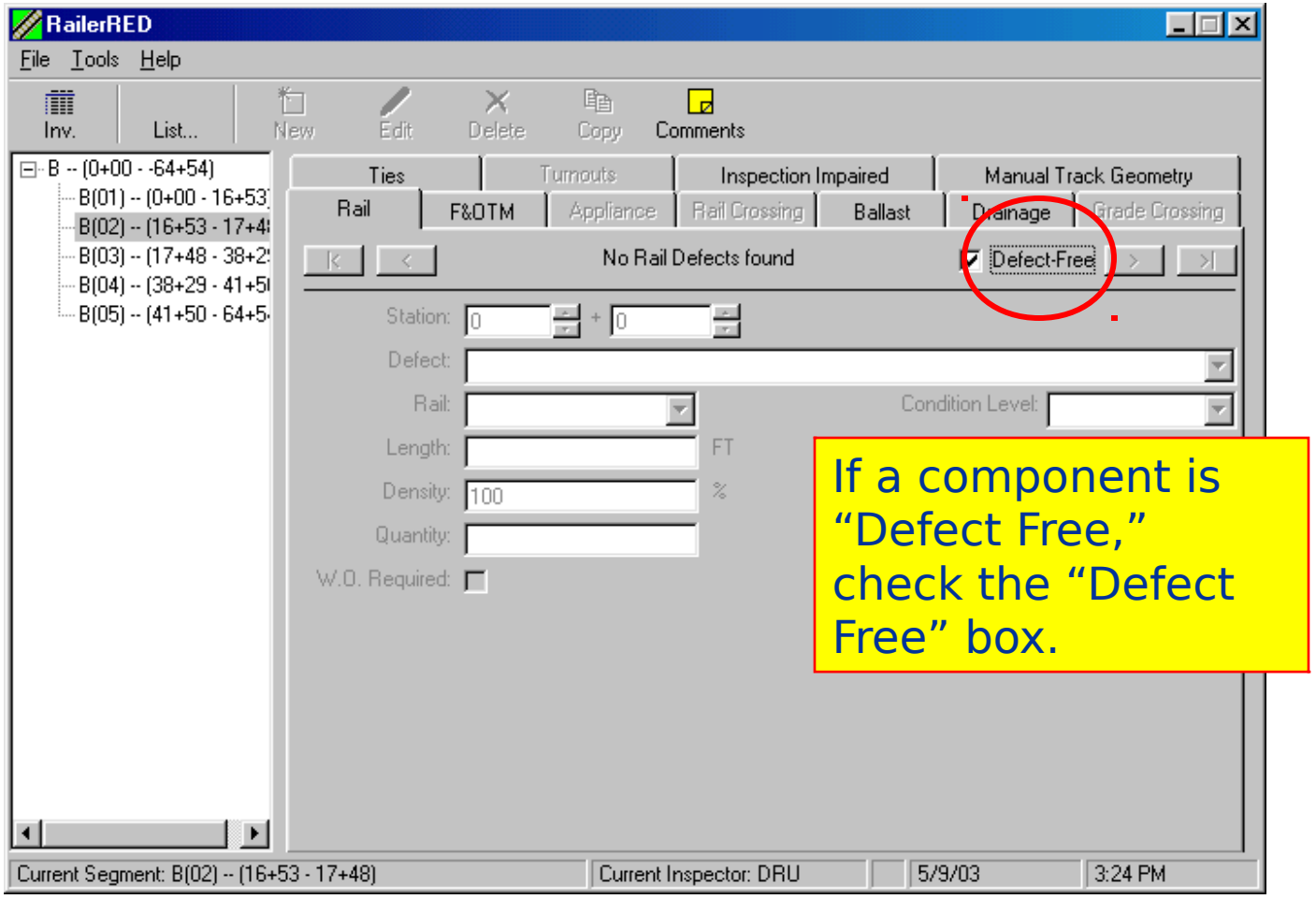
The "W.O." button is where you can denote locations, adjust the condition level, and mark a work order.

Detailed Inspection (Tie Work Items)



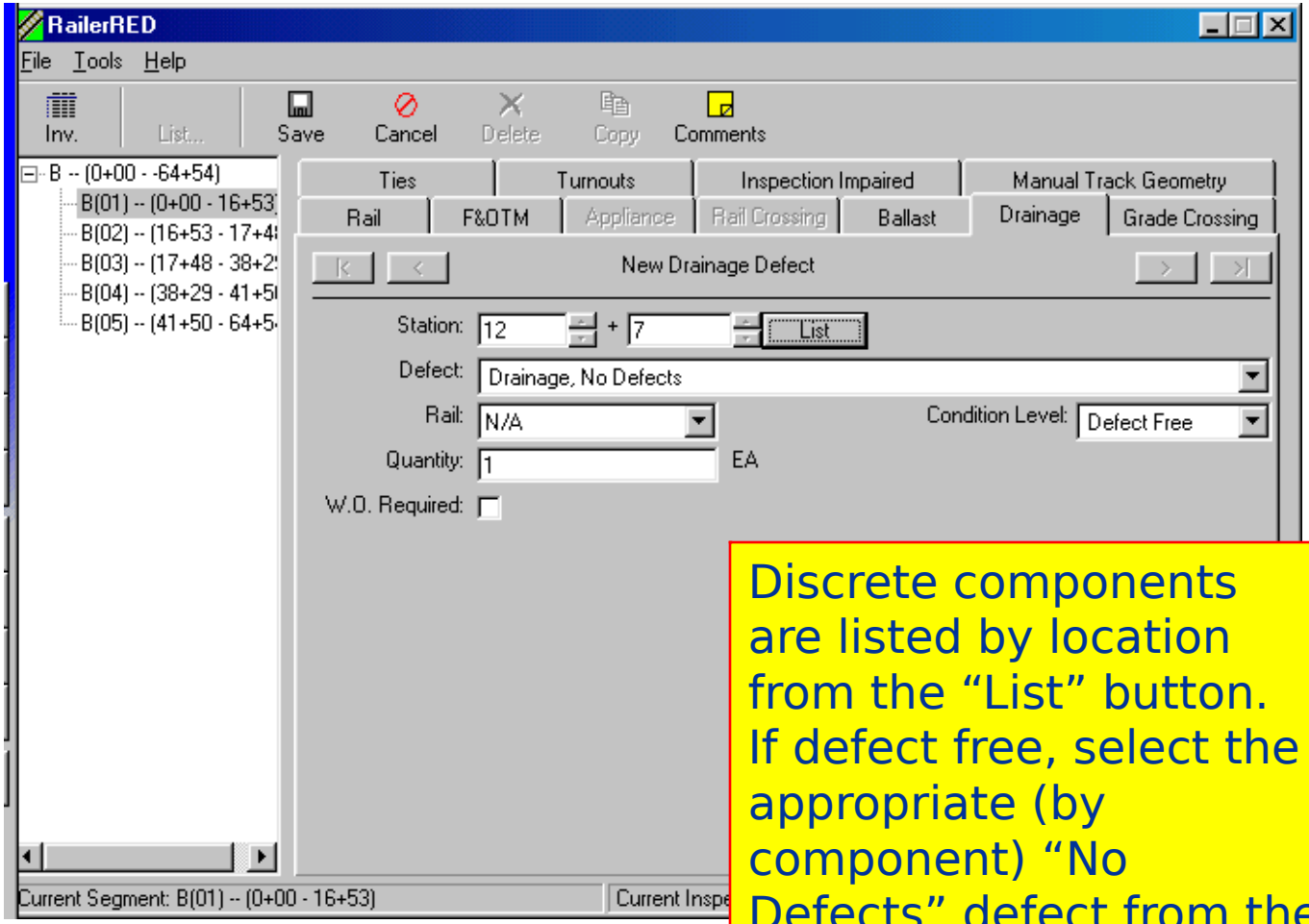
- Select the desired tie defect from list.
- Put in location and quantity.
- Optionally can lower condition level and check the W.O. Req’d box.

Detailed Inspection (Defect Free)



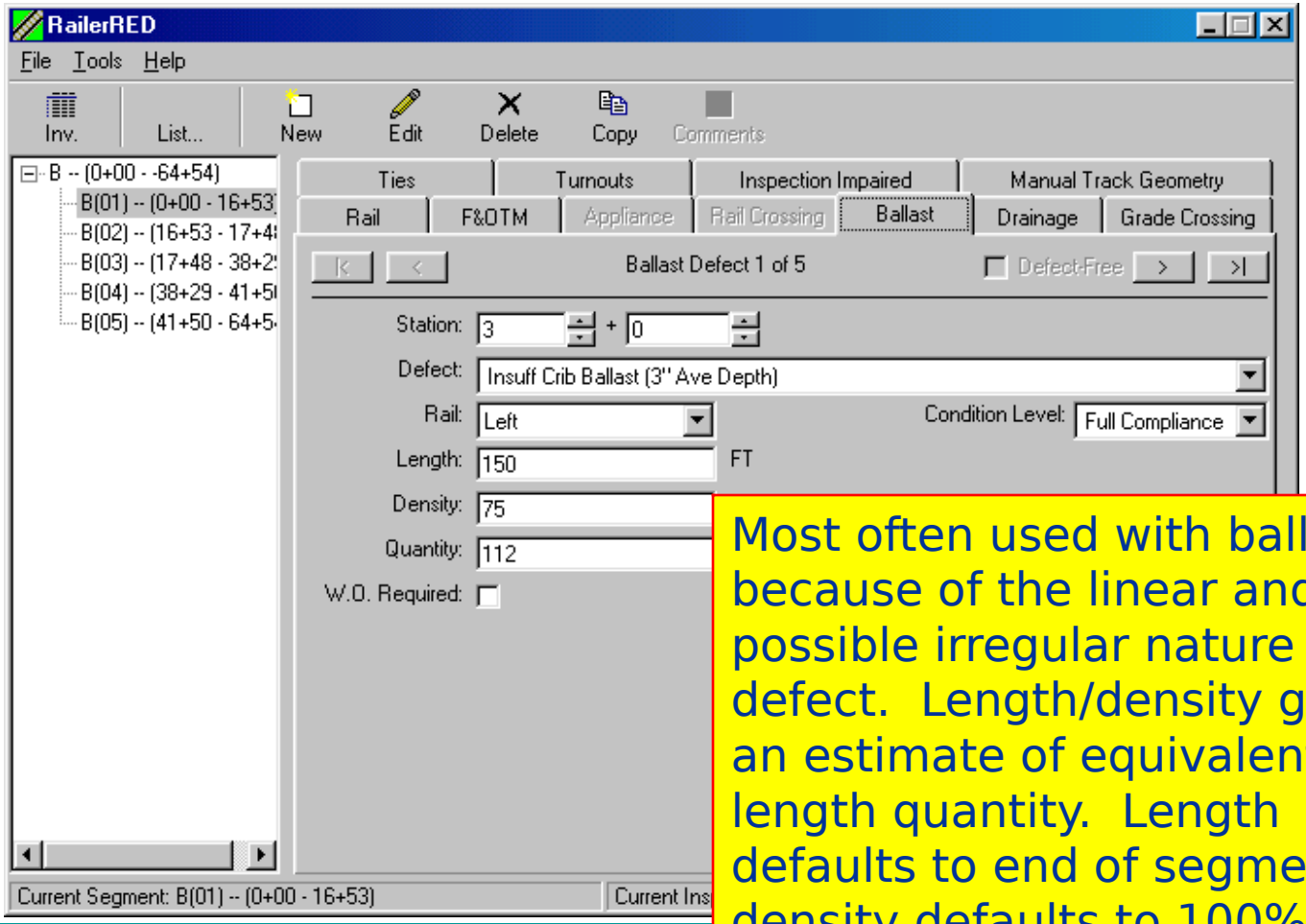
If a component is "Defect Free," check the "Defect Free" box.

Detailed Inspection (Defect Free)



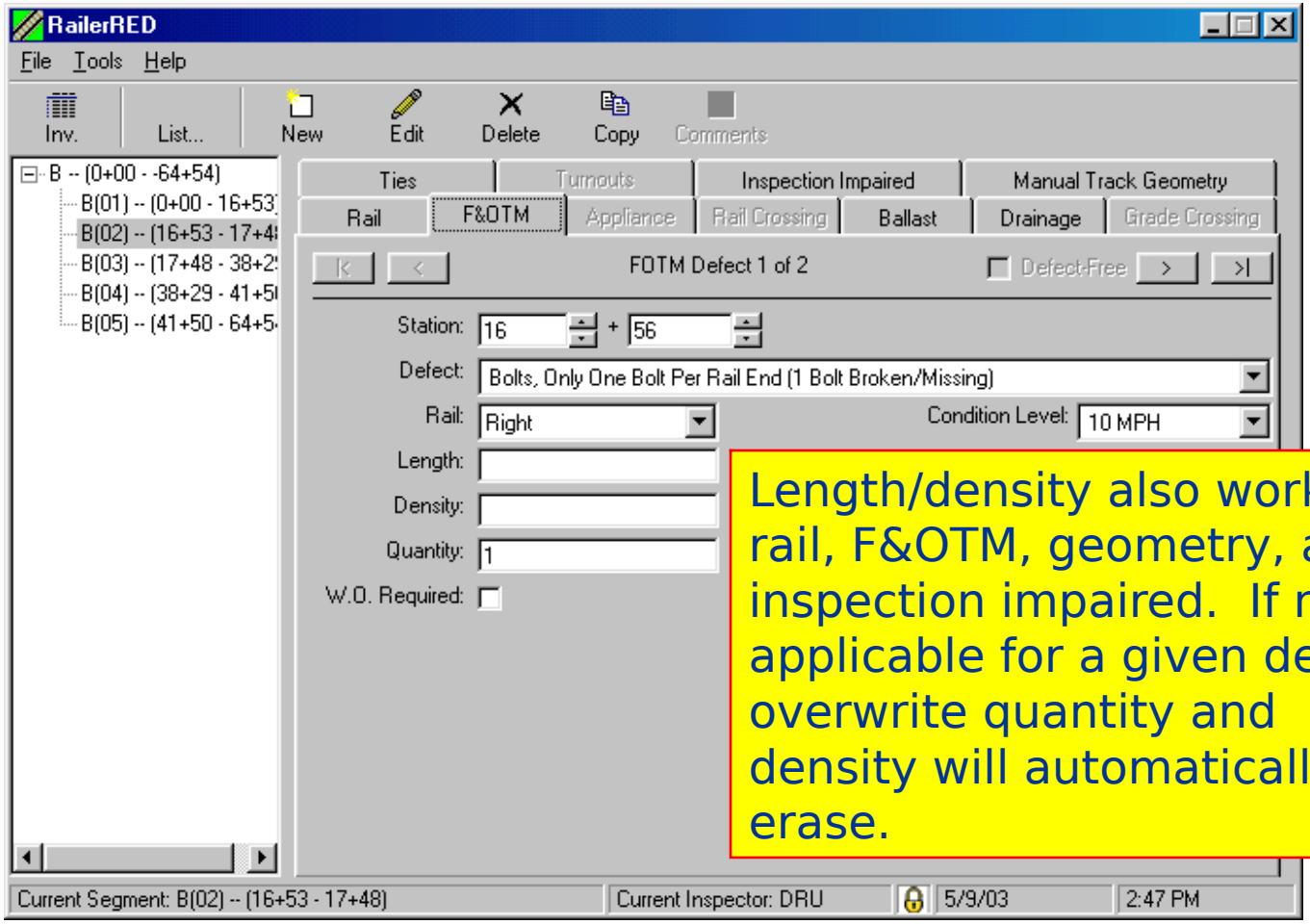
Discrete components are listed by location from the “List” button. If defect free, select the appropriate (by component) “No Defects” defect from the defect list.

Detailed Inspection (Length/Density)



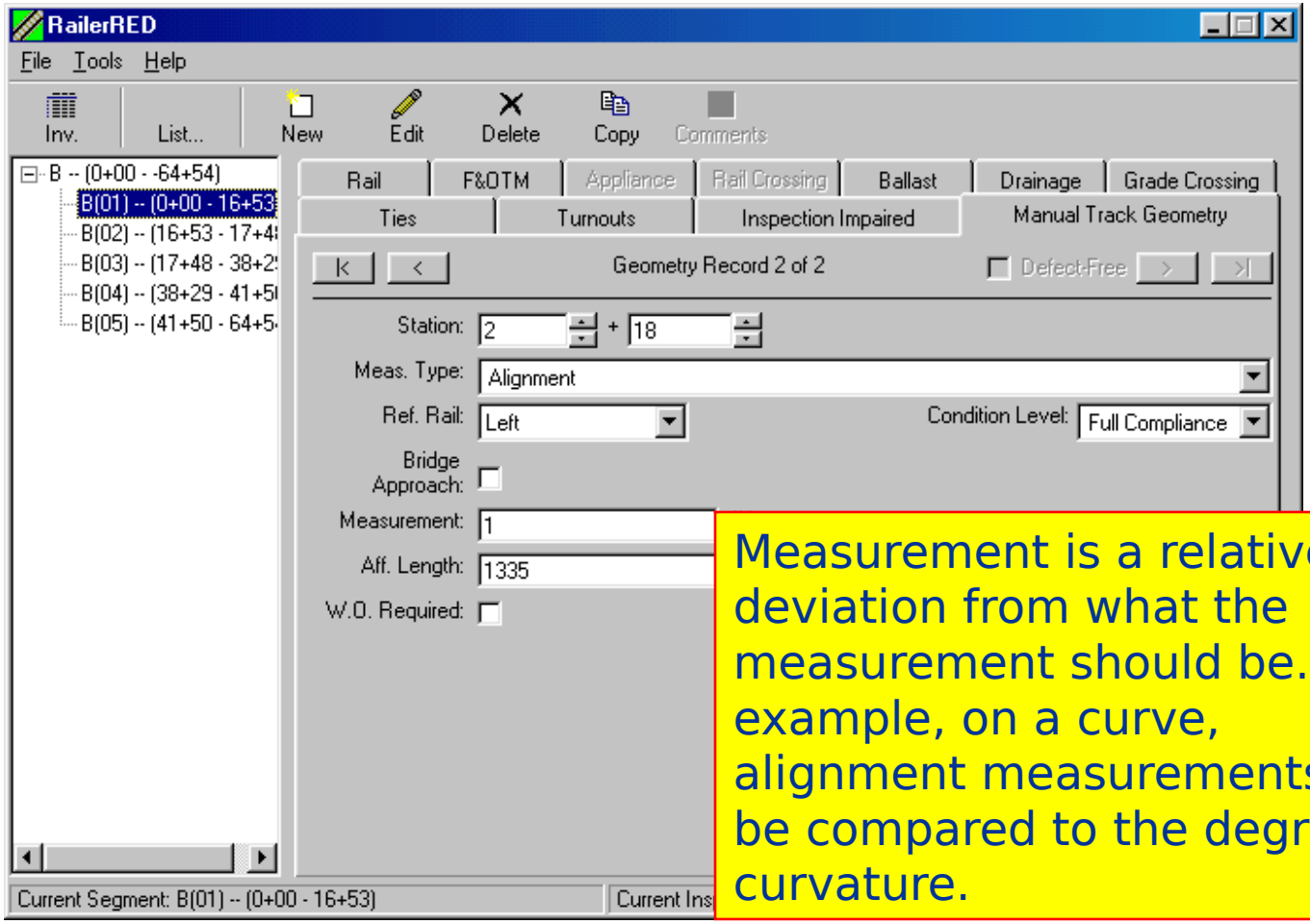
Most often used with ballast because of the linear and possible irregular nature of the defect. Length/density gives an estimate of equivalent length quantity. Length defaults to end of segment and density defaults to 100%.

Detailed Inspection (Length/Density)



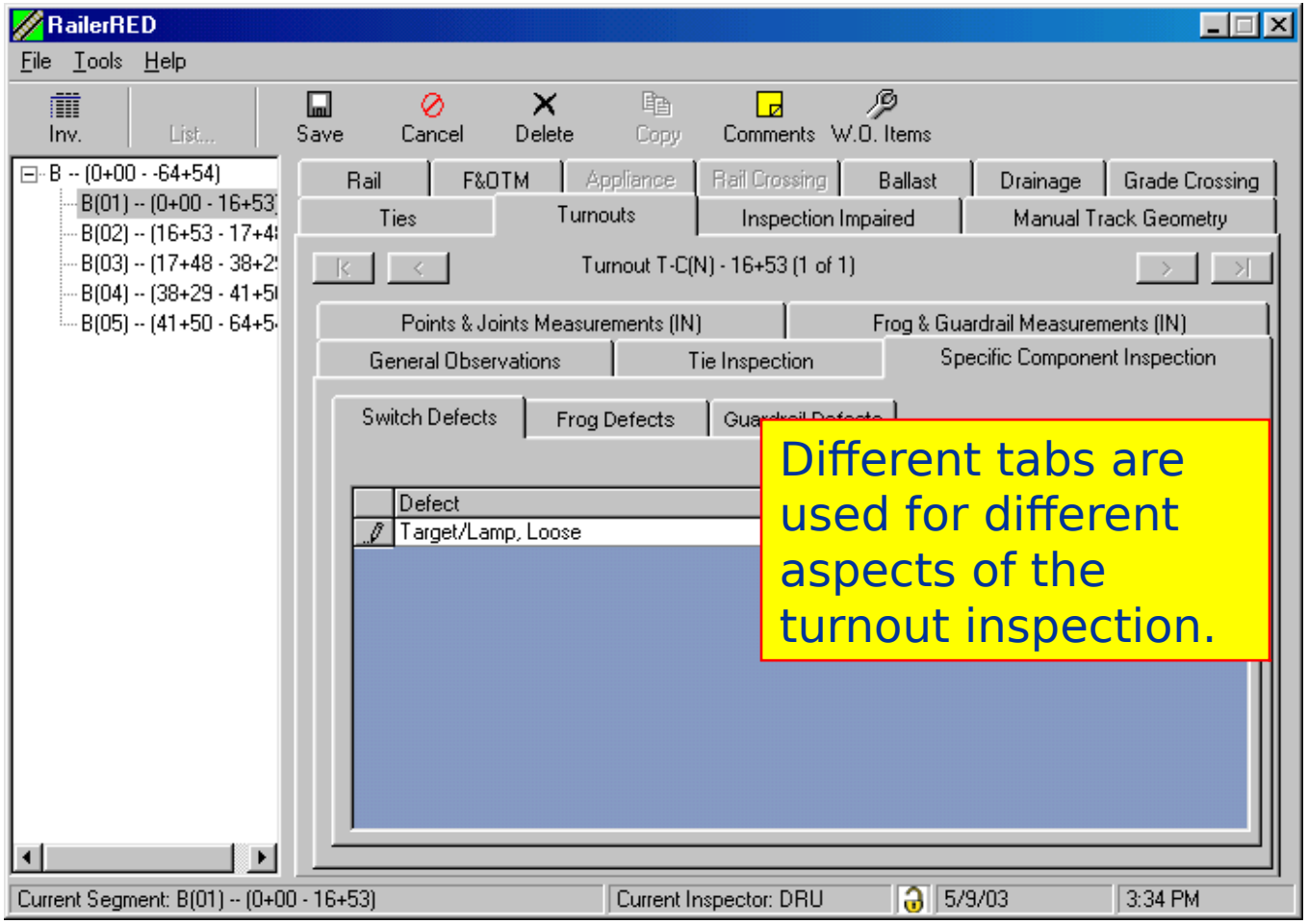
Length/density also works for rail, F&OTM, geometry, and inspection impaired. If not applicable for a given defect, overwrite quantity and density will automatically erase.

Detailed Inspection (Geometry)

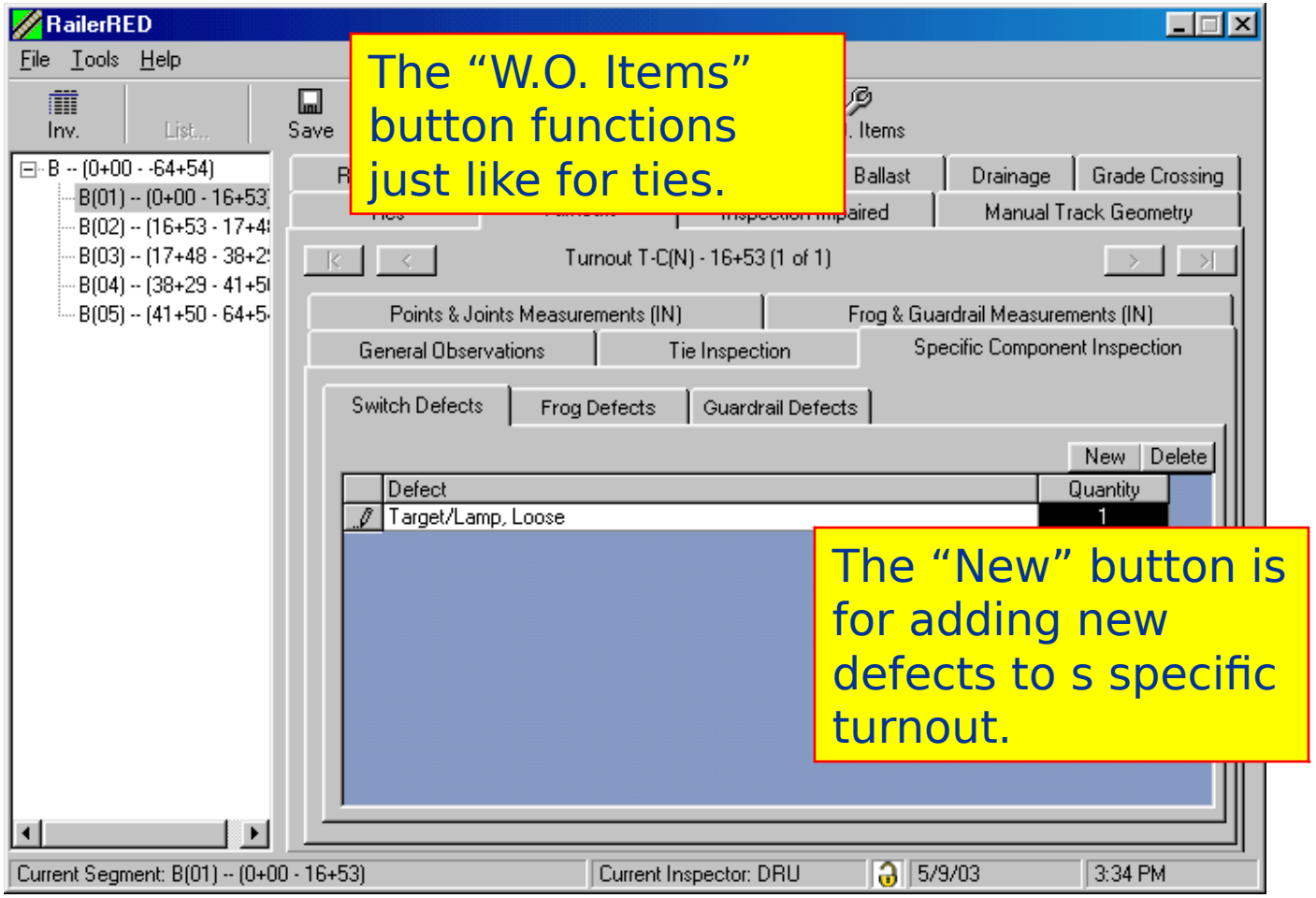


Measurement is a relative deviation from what the measurement should be. For example, on a curve, alignment measurements must be compared to the degree of curvature.

Detailed Inspection (Turnouts)



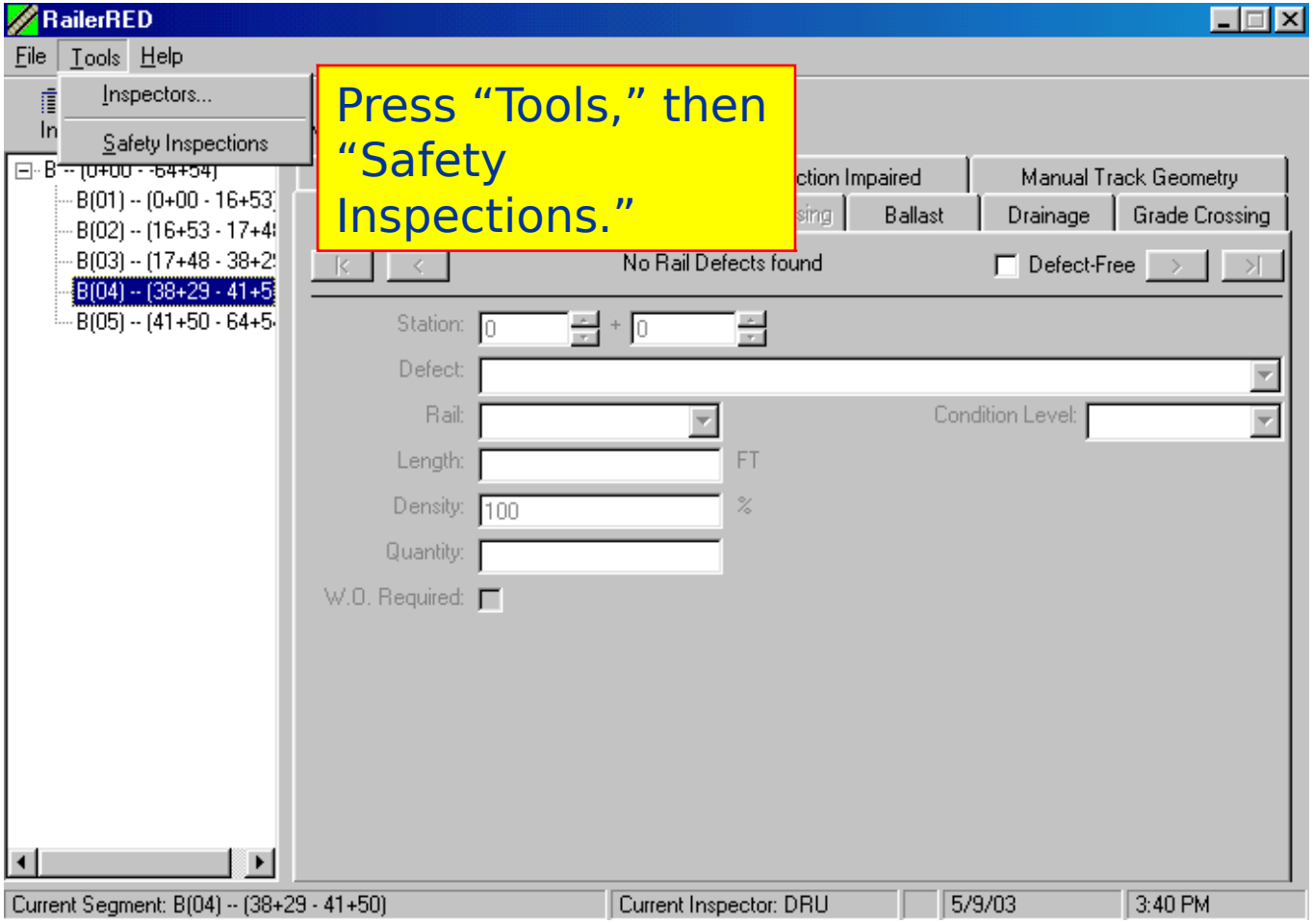
Detailed Inspection (Turnouts)



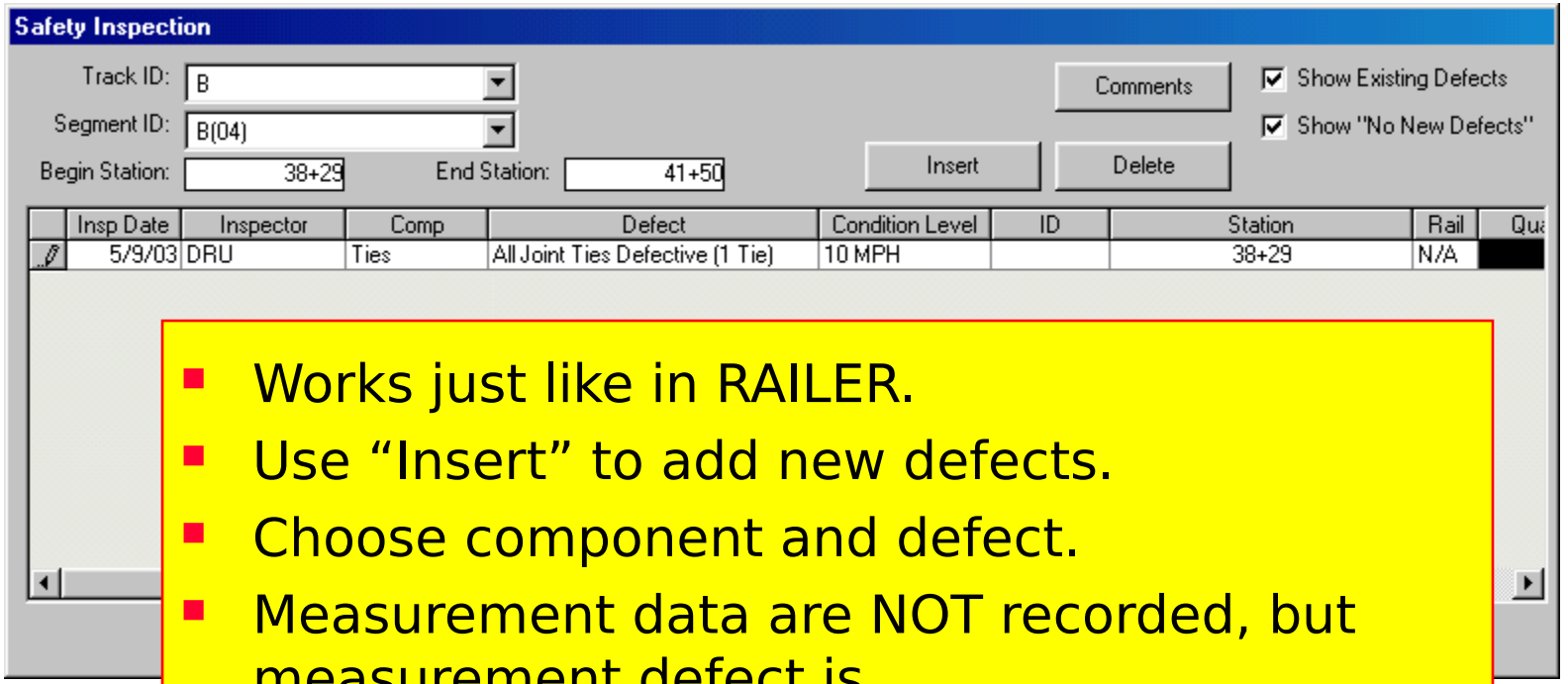
The "W.O. Items" button functions just like for ties.

The "New" button is for adding new defects to s specific turnout.

Safety Inspection

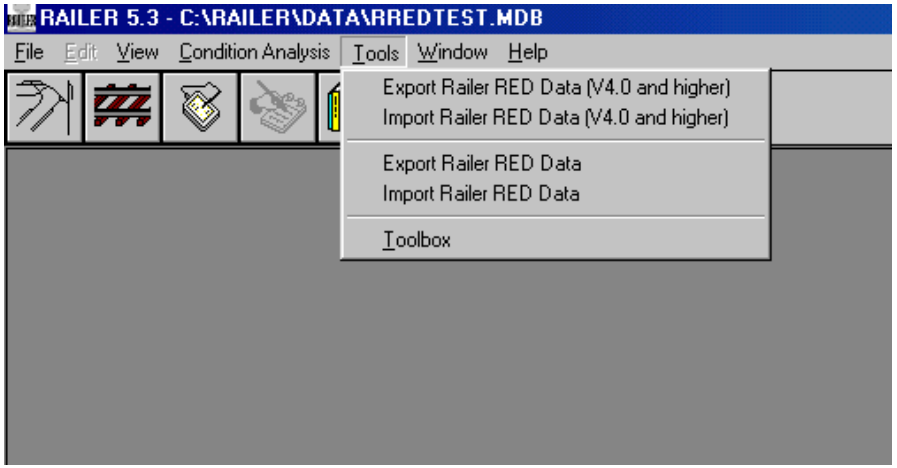


Safety Inspection


Safety Inspection
Track ID: B
Segment ID: B(04)
Begin Station: 38+29
End Station: 41+50
Comments
Insert
Delete
Show Existing Defects
Show "No New Defects"
Insp Date | Inspector | Comp | Defect | Condition Level | ID | Station | Rail
5/9/03 | DRU | Ties | All Joint Ties Defective (1 Tie) | 10 MPH | | 38+29 | N/A

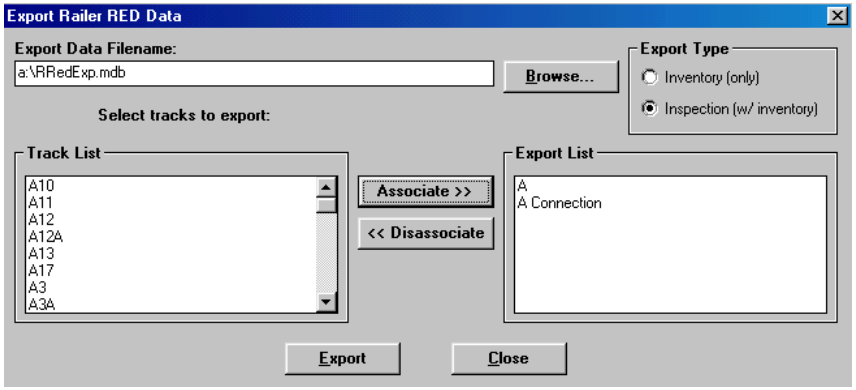
- Works just like in RAILER.
- Use “Insert” to add new defects.
- Choose component and defect.
- Measurement data are NOT recorded, but measurement defect is.
- Optionally can lower condition level and check the “W.O. Req’d” box.
- If no new defects found, chose “None” from the components list.

Importing & Exporting RAILER RED Data



- Importing and exporting is done via a floppy disk.
- To access the import and export screens in RAILER, click on “Tools” in the menu bar and select the appropriate choice.
- Applicable import or export screens will appear.

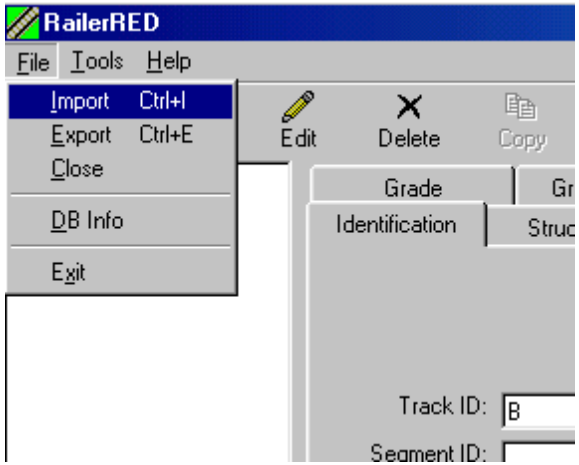
Exporting RAILER Data to RAILER RED

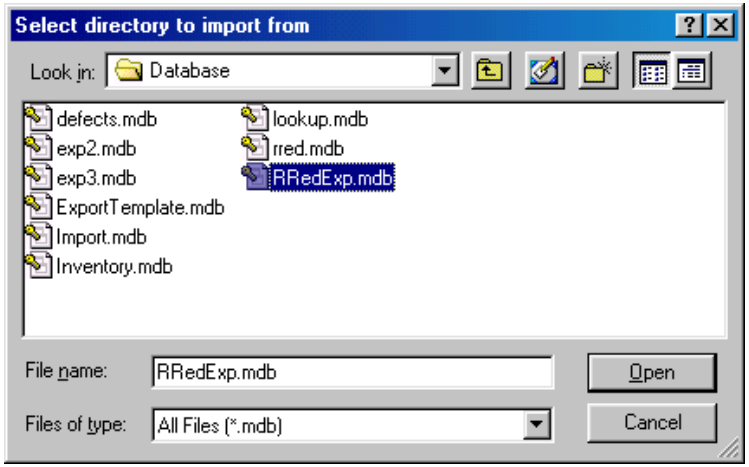


Note: If only inventory is to be updated or added in the field, select “Inventory (only).” If inspection (and maybe inventory) is to be done in the field, select “Inspection.”

- Before inspecting using RAILER RED, inventory data must be transferred from RAILER to RAILER RED.
- The destination is usually the drive where the floppy disk resides.
- RAILER sets a default file name. It can be changed.
- Transfer the desired tracks that are planned for inspection from the available list to the export list and click the “Export” button.

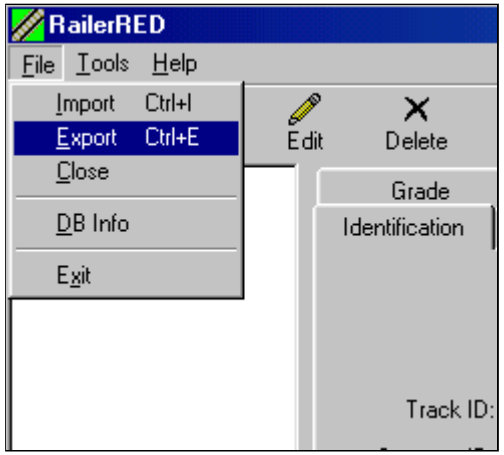
Importing RAILER Data into RAILER RED

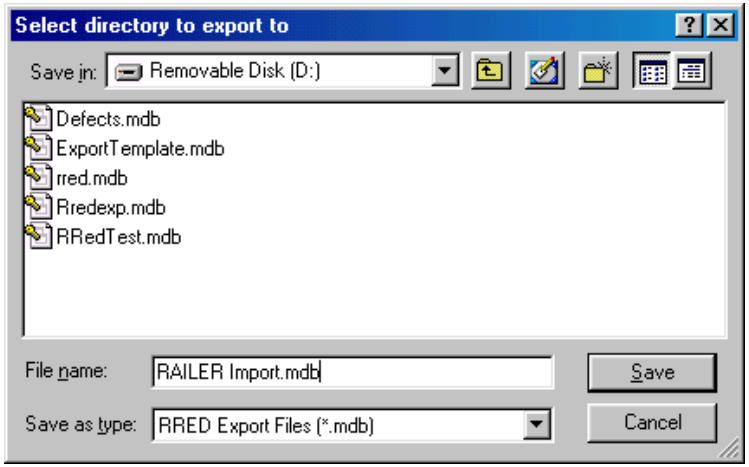




- Press “File” then “Import.”
- Find import file created in RAILER and select it. Press “Open.”

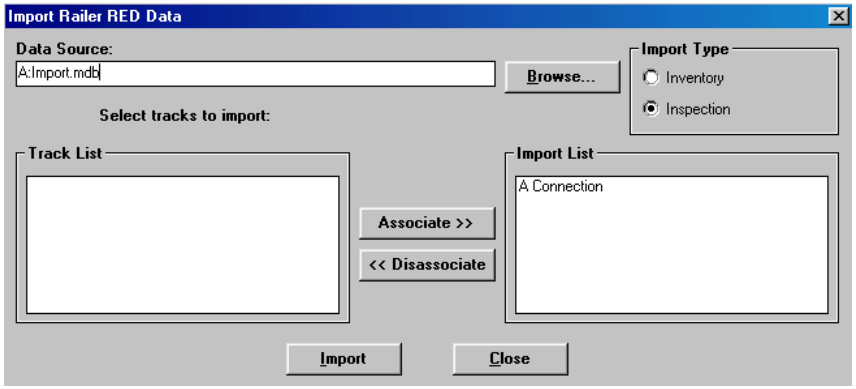
Exporting RAILER RED Data to RAILER





- Press “File” then “Export.”
- Choose a location and file name for the export file. Press “Save.”

Importing RAILER RED Data into RAILER



- Select the “Import Type (Inventory or Inspection) and the data source. Typically, this will be the computer “a:” drive.
- Then transfer the desired tracks from the available list to the import list and click the “Import” button.
- If adding inventory and inspection data, do inventory first.

Note: Only tracks with inventory changes or inspection data will be on the track list.

Key Points to Remember

- The first time RAILER RED is used for a given network, at least one track must be imported into RAILER RED to “seed” it properly.
- The inventory feature can be used for initial track inventory and updates.
- Network and track inventory data may be entered.
- Track inventory is entered only at the track level. It can be viewed at the segment level.
- Select tracks from the tree.

Key Points to Remember (con't)

- Track structure length defaults to end of segment or begin location of next record.
- When editing track structure and inserting a record between records, set the end station first by editing the begin station of the next record.
- Inspections are performed at the track segment level only. Select the desired segment from the tree.
- Recorder can toggle between inventory and inspection.

Key Points to Remember (con't)

- Import inspection information back into RAILER or export RAILER RED data to a file prior to exporting new tracks to RAILER RED. Otherwise the inspection information will be lost.
- The most recent inspection data may be viewed and copied into the current inspection.
- Inventory and inspection may be conducted simultaneously.
- Don't forget to check or select "Defect Free," when applicable.

Key Points to Remember (con't)

- Geometry measurements are relative values.
- To create a work order or to edit the condition level for ties and turnouts, first save the defect, then press the W.O. Item button.
- Component groups in a given segment must be inspected in a single day. If this is not possible, RAILER RED provides an automatic five (5) day inspection window.
- Refer to help file, if needed.

Questions?